INTERNATIONAL HARVESTER

OPERATOR'S MANUAL

SETTING UP INSTRUCTIONS

OPERATION
MAINTENANCE
LUBRICATION

INTERNATIONAL®

Cub L-38

Disk Harrow

To The Owner

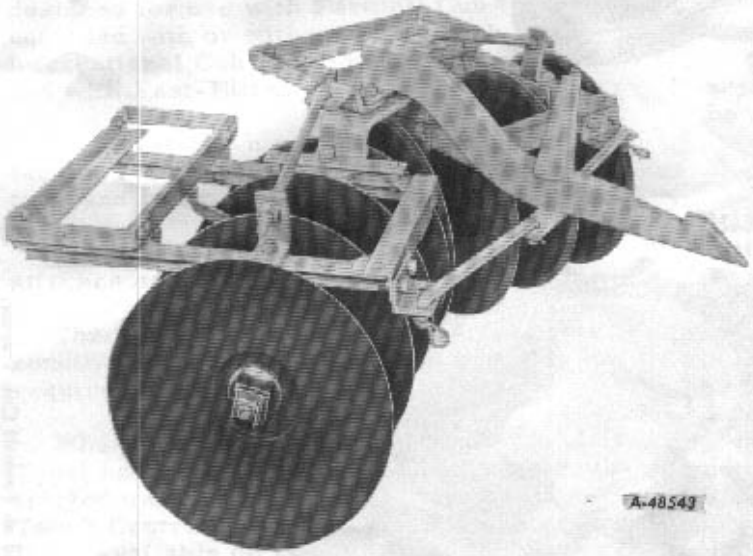
Your new International Harvester disk harrow is designed to meet today's exacting operating requirements. The ease of operation and ability to adjust to field conditions lighten your work and shorten your hours on the job.

You are urged to consult your International Harvester dealer concerning unusual field conditions or special applications. Let the experience of your dealer and the organization associated with him serve you.

Be sure to read the instructions for Adjusting and Operating in this manual. Check each item referred to and acquaint yourself with the adjustments required to obtain efficient operation and maximum trouble-free performance. Remember, an implement which is properly lubricated and adjusted saves time, labor, and fuel.

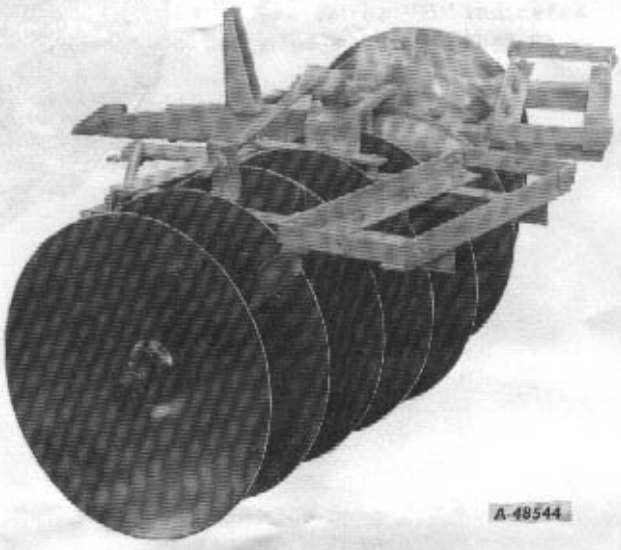
After the operating season, thoroughly clean your implement and inspect it. Preventive maintenance pays dividends. Your dealer has original-equipment parts which assure proper fit and best performance. He is able to recondition your equipment to a like new condition.

Additional copies of this manual may be ordered from your International Harvester dealer at a nominal price.



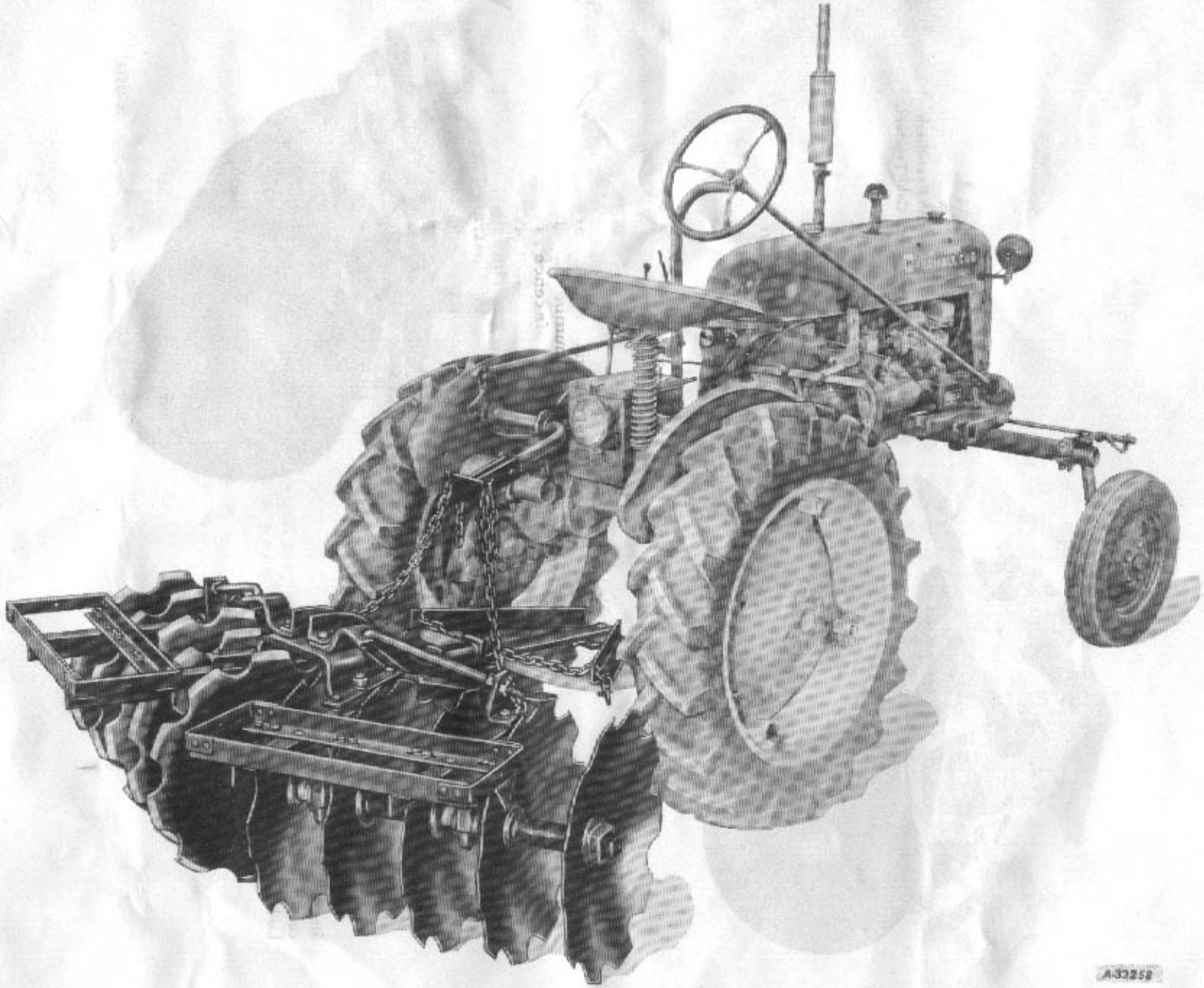
A-48543

Single-Cut Disk Harrow with Fast-Hitch coupling beam for Farmall Cub® Tractors.



A-48544

Single-Cut Disk Harrow with Fast-Hitch coupling beam for International Cub® Lo-Boy® Tractors.



Single-Cut Disk Harrow (Lift Type) mounted on Farmall Cub Tractor.

The instructions contained in this manual also cover the Cub-F38, Cub-38, Cub-38A, L-38, Cub-138, and 1-F38 Single-Cut Disk Harrows.

INTRODUCTION

The Cub L-38 Single-Cut Disk Harrow is designed for use with Farmall Cub® Tractors equipped with or without Fast-Hitch and for International Cub®Lo-Boy®Tractors equipped with Fast-Hitch.

The Fast-Hitch method of attaching and detaching the harrow saves the operator much time and labor.

The direct connected (Lift Type) harrow attaches easily to the rear rockshaft arm.

The harrow is adaptable to various soil conditions and to the many jobs that may be required.

When mounting the direct-connected (Lift Type) harrow on a Farmall Cub Tractor, the tractor must be equipped with Hydraulic Touch Control and with a Rear Rockshaft Unit, available on special order. The rear rockshaft is used in conjunction with the Hydraulic Touch Control for raising and lowering the harrow.

The harrows are available in 4' and 5'-1" sizes and can be equipped with 16", 18", or 20" plain or cut-out disk blades. The gangs can be individually set at 12°, 15°, or 18°.

The gang frames are made of flat and angle steel riveted together for rugged construction. Individual weight boxes are built into each gang frame. It is recommended that not more than 50 pounds of weights be used.

Both gangs are equipped with individually adjustable scraper blades. The machine may be ordered with or without scraper blades.

You are urged to consult your International Harvester dealer concerning unusual field conditions or special crops. Within the International Harvester Company are men who have spent years in research and study of your problems. Let the experience of these men serve you.

Be sure to read the Adjusting and Operating Instructions in this manual. Check each item referred to and acquaint yourself with the adjustments required to do a good job and for obtaining maximum, trouble-free service from your machine.

Remember, a harrow which is properly lubricated and adjusted saves time, labor, and fuel costs.

Illustrations are numbered to correspond with the page number on which they are located. Therefore, if reference is made to Illust. 12B for example, you know that the illustration appears on page 12. The letter "B" indicates that it is the second illustration on that particular page.

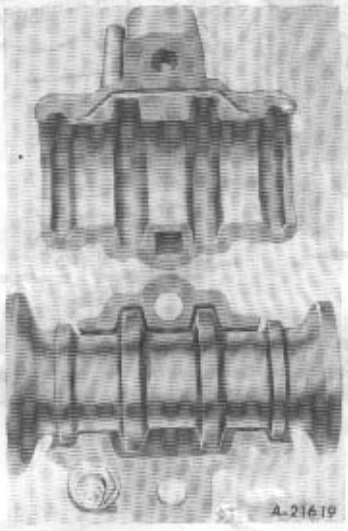
INSTRUCTIONS FOR ADJUSTING AND OPERATING

(Setting Up Instructions begin on page 10)

LUBRICATION

The bearings on this machine are provided with large lubricant reservoirs and pressure gun fittings. Before operating, all bearings and moving parts should be thoroughly lubricated.

Fill the pressure gun with lubricant and pump an ample supply into the bearings. Repeat this operation daily.



Illust. 5A

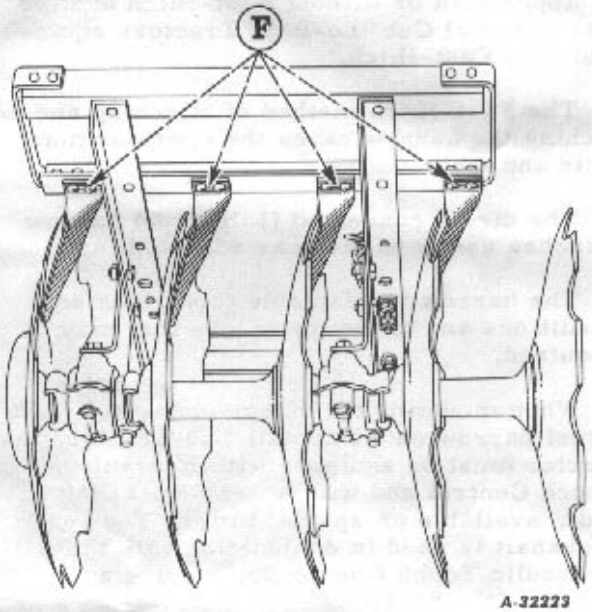
The harrow is easy to operate and adjust. In almost every type of field work the gangs should run level and cut at an even depth.

Harrows with Fast-Hitch attach easily and quickly to the tractor. The depth of cut is controlled by means of the Touch-Control lever. The Fast-Hitch is also used to raise the harrow for ample clearance when transporting.

Direct-connected (Lift Type) harrows attach to the tractor drawbar and to the rear rockshaft arm of the Touch-Control system. The depth of cut is controlled by the lifting chains. The harrow is easily raised or lowered by means of the Touch-Control lever which operates the rear rockshaft.

SCRAPER BLADE ADJUSTMENT

Adjust the scraper blades so they just clear the center of the disk blades. Each scraper is individually adjusted along the slots at points "F" (Illust. 6A). The harrow may be ordered with or without scraper blades.



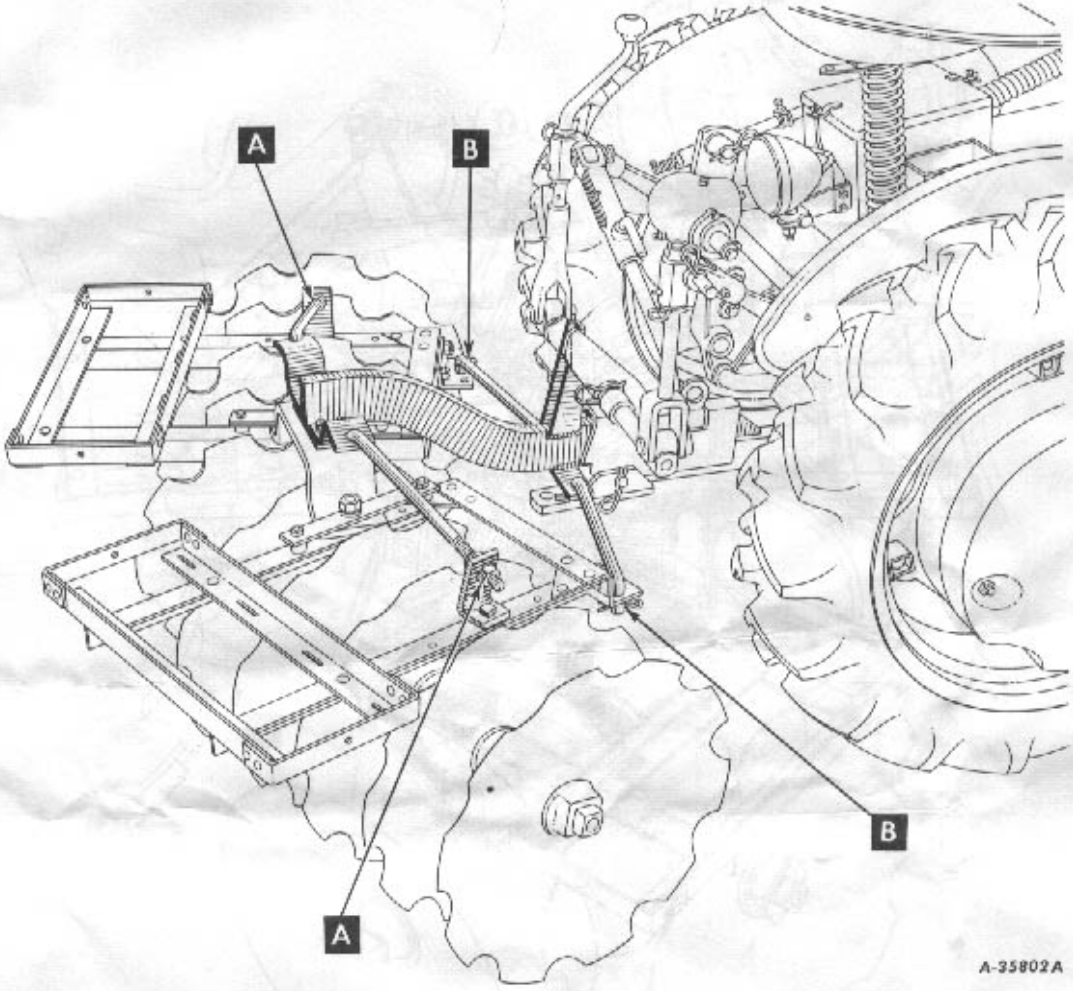
Illust. 6A

Loose or "floppy" clothing should not be worn by the operator because of the danger of it wrapping on or getting into the moving parts.

Only one person, the operator, should be permitted to ride on the tractor when it is in operation.

LEVELING AND ANGLING ADJUSTMENTS

Harrows with Fast-Hitch



Illust. 7A
Farmall Cub Tractor illustrated.

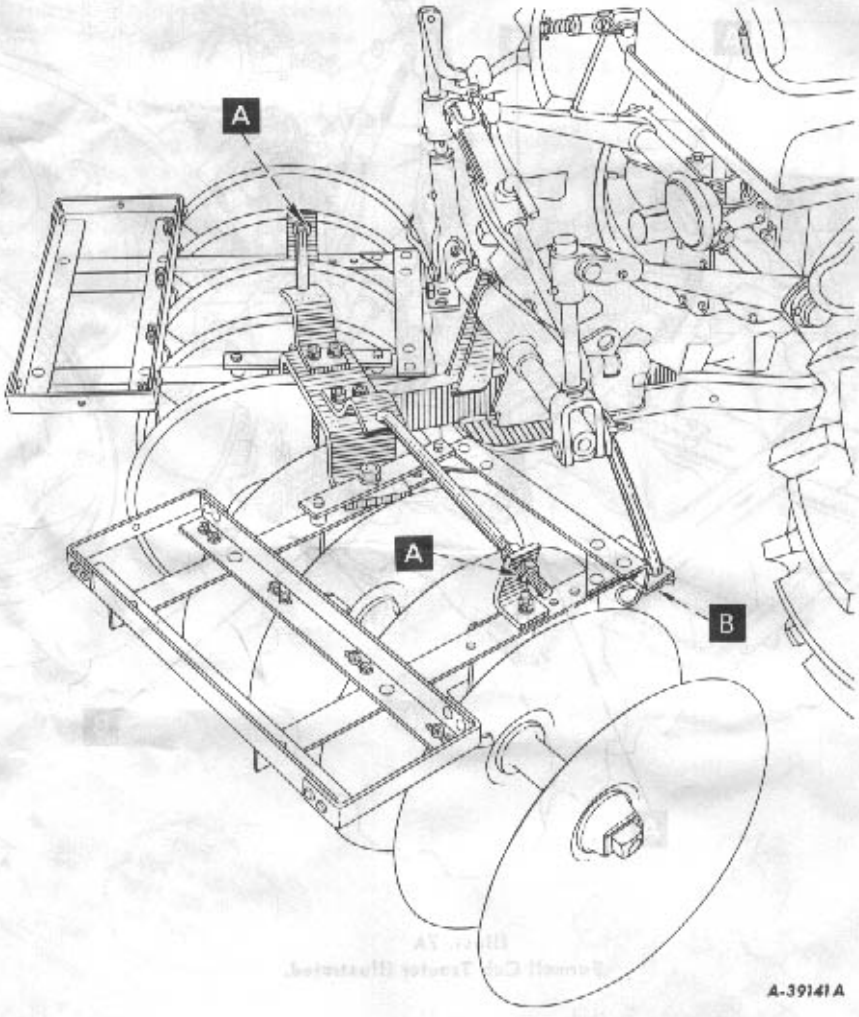
See Illusts. 7A and 8A.

The gangs can be adjusted by means of the gang frame support rods. This adjustment is made by turning the nuts at "A". To raise the outer ends of the gangs, turn the nuts in on the support rod; to lower the outer ends of the gangs, turn the nuts out on the support rod.

The degree of the angle of the gangs can be adjusted by means of the selection of adjusting holes at "B". If the adjuster bars are placed in the inside holes, the angle will be 12°; if set in the middle holes, the angle will be 15°; and if set in the outside holes, the angle will be 18°.

LEVELING AND ANGLING ADJUSTMENTS - Continued

Harrows with Fast-Hitch - Continued

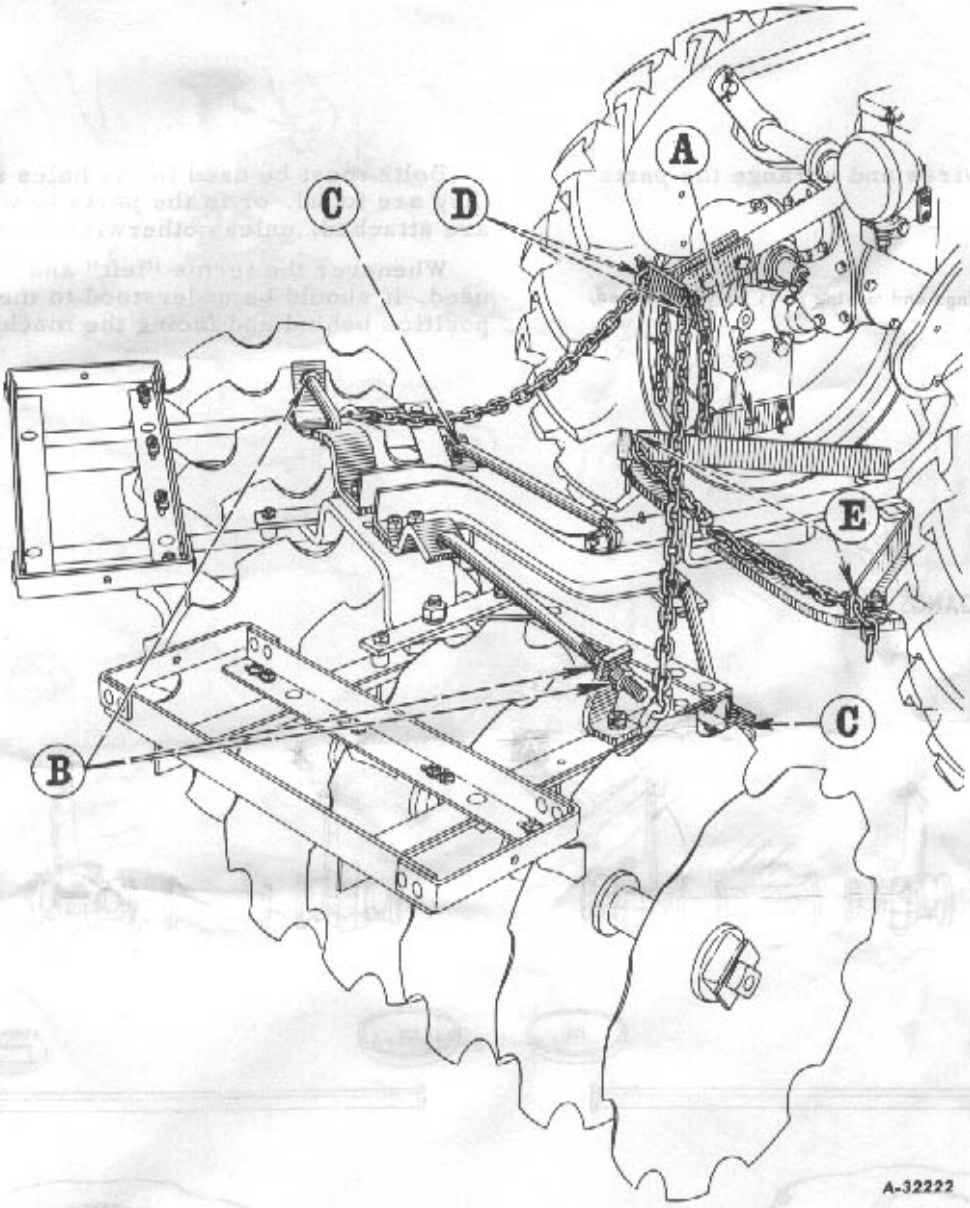


Illust. 8A
International Cub Lo-Boy Tractor illustrated.

For instructions, refer to page 7.

LEVELING, ANGLING, AND LIFTING ADJUSTMENTS

Harrows Direct Connected



Illust. 9A
Farmall Cub Tractor illustrated.

NOTE: The harrow will not operate unless the bolts at "A" (Illust. 9A) in each side of the tractor drawbar are removed.

The gangs can be adjusted by means of the gang frame support rods. This adjustment is made by turning the lock nuts at "B". To raise the outer ends of the gangs shorten the nuts on the support rod; to lower the outer ends of the gangs lengthen the nuts on the support rod.

The degree of the angle of the gangs can be adjusted by means of the selection of holes at "C".

The lifting chains are adjustable at "D". To allow the harrow deeper penetration, drop the rockshaft arm and lengthen the chains; to raise the harrow and allow for higher road clearance shorten the chains at "D".

The snubbing chains shown at "E" must be placed in the slots of the hitch frame so that the disk harrow does not contact the tractor tires when turning or when the disk harrow is being transported.

INSTRUCTIONS FOR SETTING UP

(Adjusting and Operating Instructions begin on page 5)

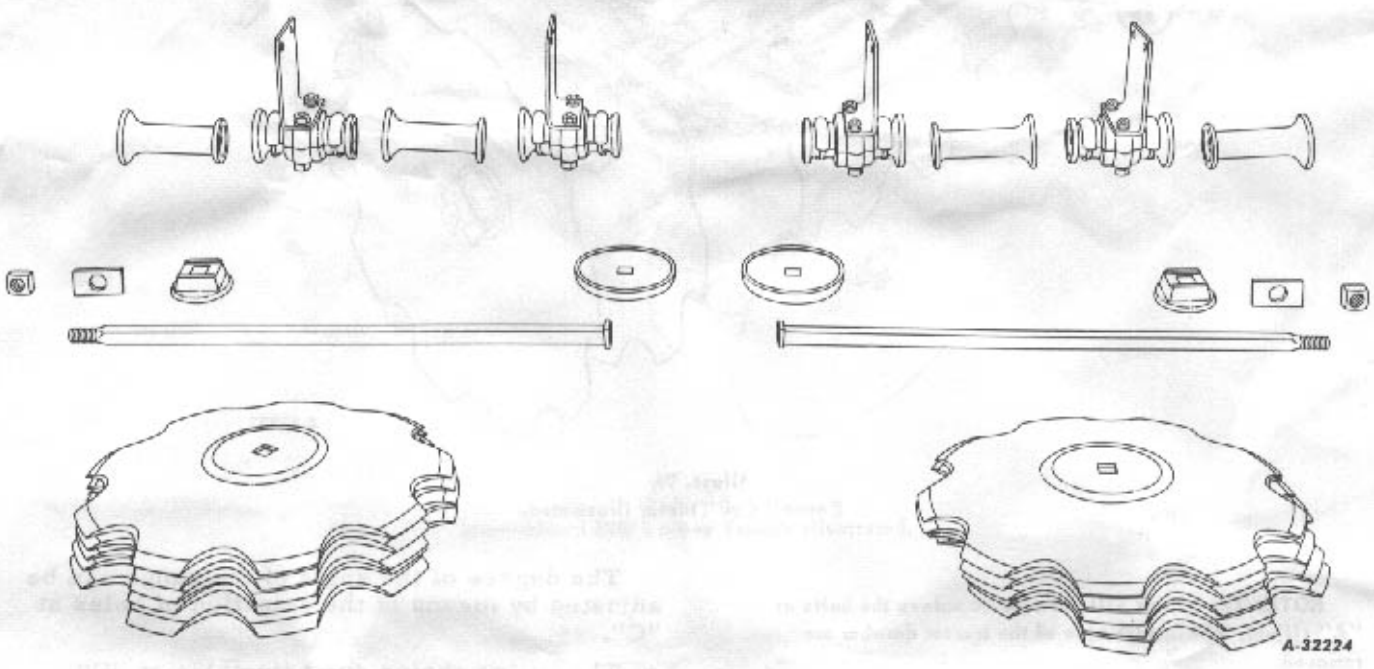
Remove all wires and arrange the parts conveniently.

Lubricate all bearings and moving parts as you proceed, and see that they work freely.

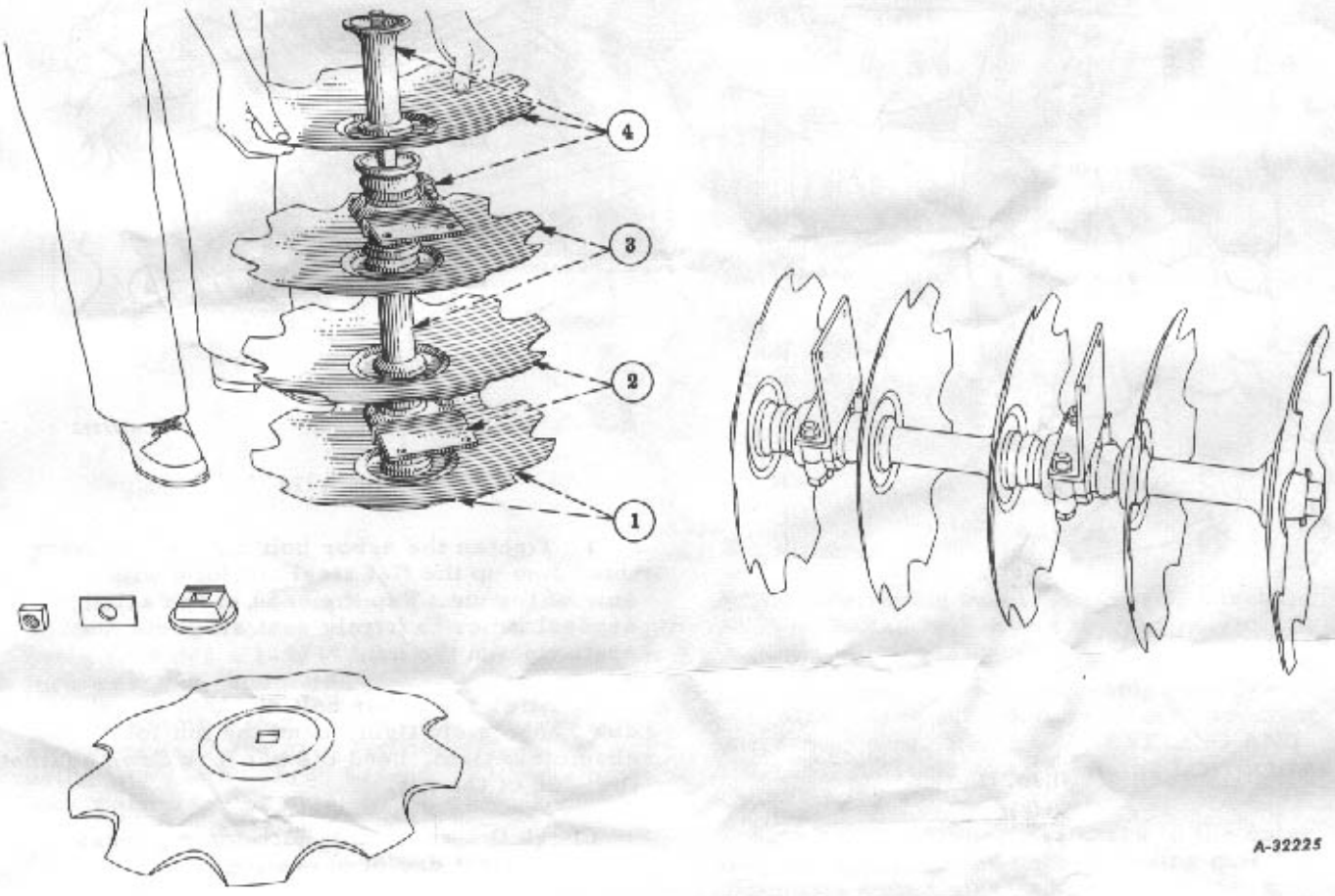
Bolts must be used in the holes in which they are found, or in the parts to which they are attached, unless otherwise shown.

Whenever the terms "left" and "right" are used, it should be understood to mean from a position behind and facing the machine.

ASSEMBLING THE GANGS



Illust. 10A
Disk gangs before assembling.



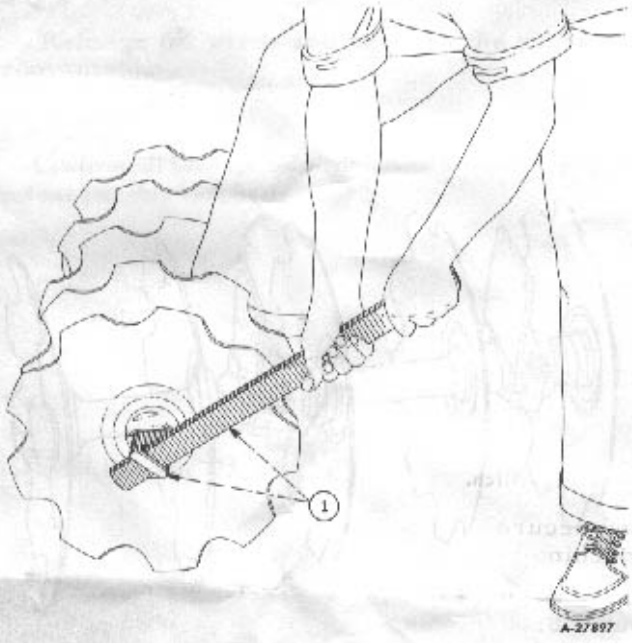
Illust. 11A
Assembling the disk gangs.

1. With the arbor bolt in a vertical position, place the concave arbor bolt head washer and one disk on the arbor bolt.

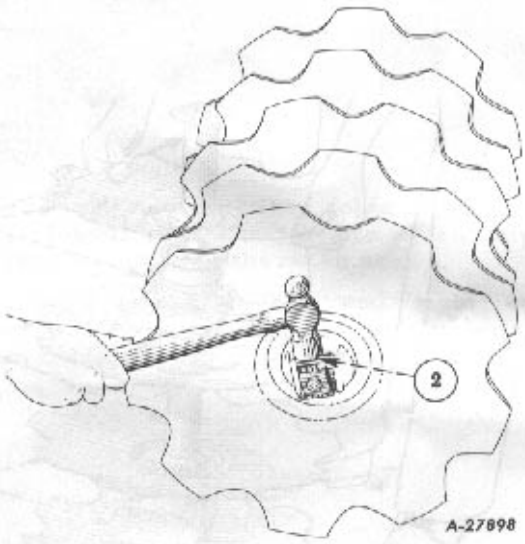
2. Place the bearing assembly and another disk on the arbor bolt as shown. The bearings and spacing spools go on the arbor bolt with the end having the small diameter toward the arbor bolt head.

3. Place the spacing spool and another disk on the arbor bolt. Be certain the small end of the spool is down.

4. Put on the remaining bearing assembly, the last disk, the arbor bolt nut washer, nut lock, and square nut in the order mentioned. The assembled gang should appear the same as in Illust. 11A.



Illust. 12A



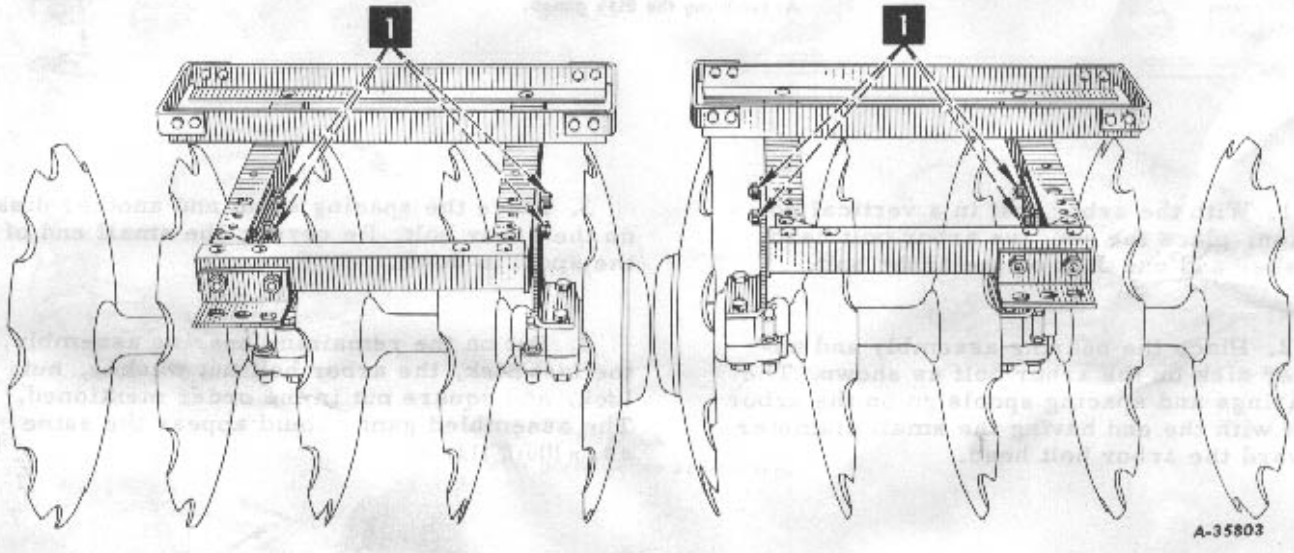
Illust. 12B

1. Tighten the arbor bolt nut. While doing this, line up the flat steel nut lock with one side of the nut. Tap the head of the arbor bolt several times to firmly seat all parts and again tighten the nut.

2. After the arbor bolt nut has been drawn down absolutely tight, bend the nut lock down absolutely tight, bend the nut lock down against the side of the nut.

Check the arbor bolt nuts for tightness after the first day of operation.

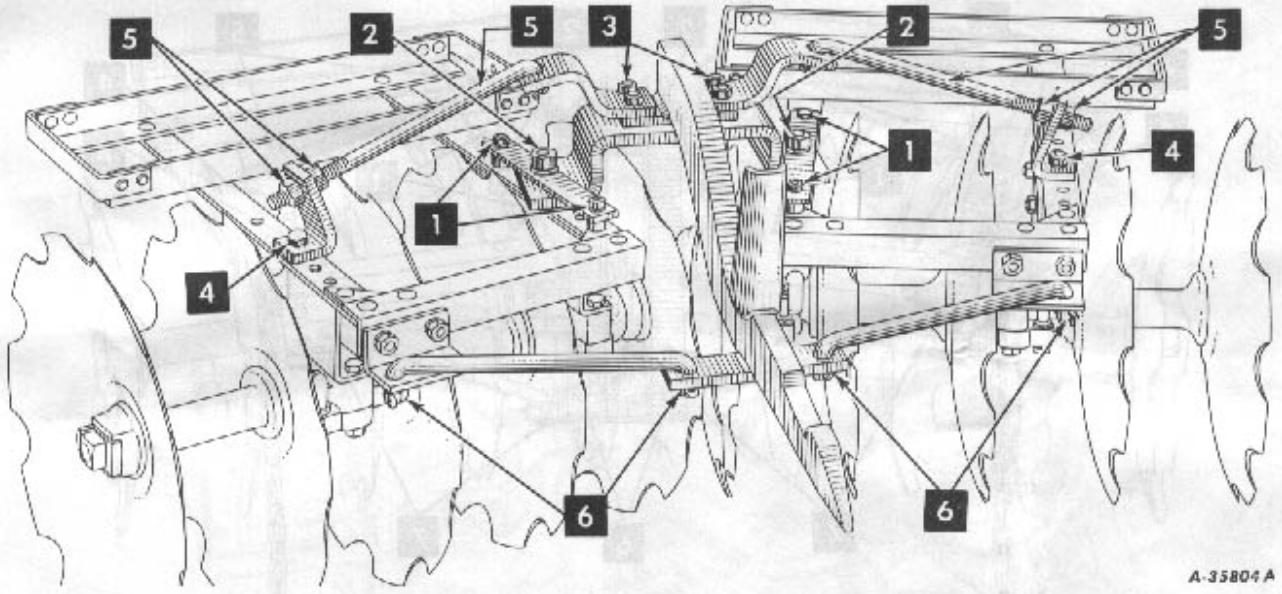
GANG COVERS AND BEARING STANDARDS



Illust. 12C

1. Place the gangs in their relative positions and attach the gang covers to the bearing standards with the bolts provided.

GANG SWIVEL PLATE, COUPLING BEAM, SUPPORT RODS, AND OUTER DRAWBARS



Illust. 13A
Farmall Cub Tractors with Fast-Hitch.

1. Assemble four spacers and two swivel bracket straps to the gang frames and secure, using four 3/8 x 1-3/4" hex-hd. machine bolts, lock washers, and nuts.

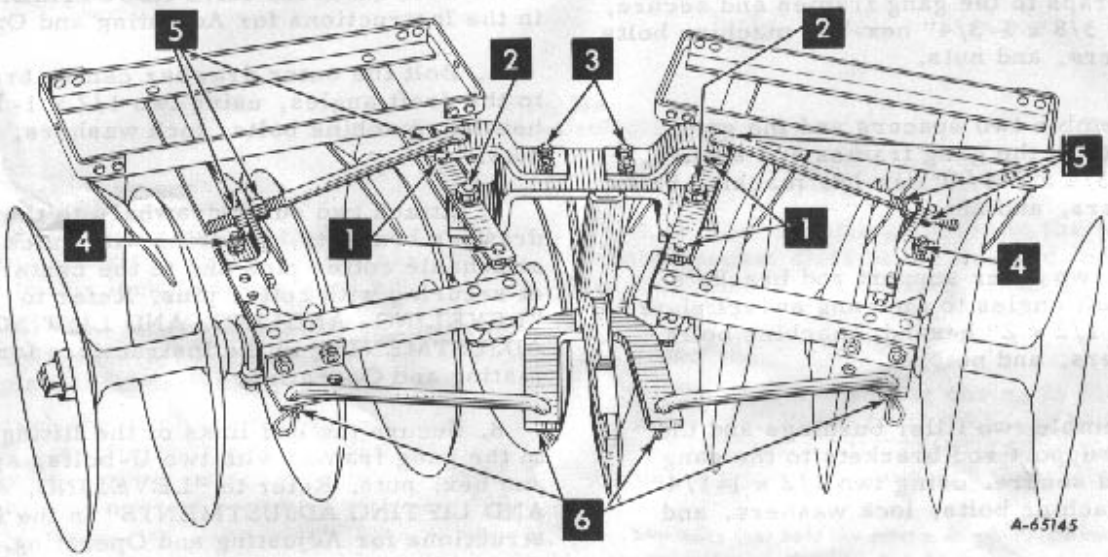
2. Assemble two spacers and the gang swivel plate to the gang frames and secure, using two 3/4 x 2-1/4" hex-hd. machine bolts, lock washers, and nuts.

3. Bolt the coupling beam assembly and two inner support rod brackets to the gang swivel plate, using four 1/2 x 2-1/4" hex-hd. machine bolts, lock washers, and nuts.

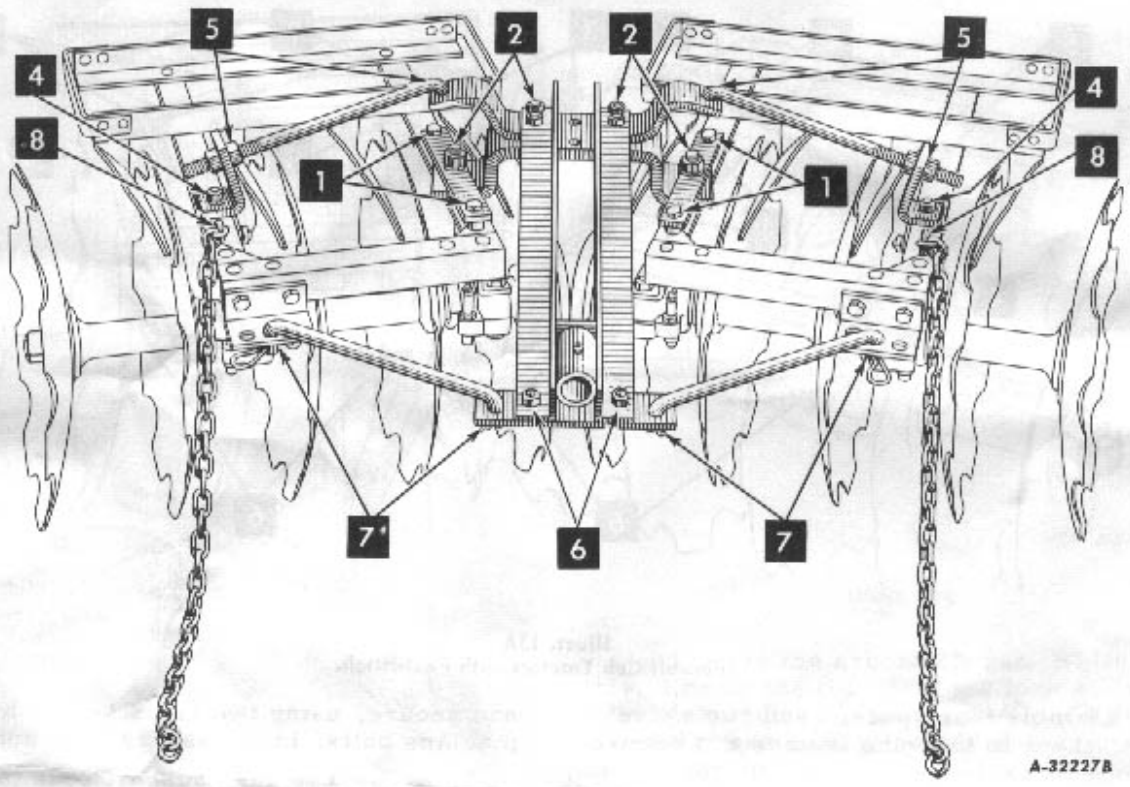
4. Assemble two filler bushings and two outer support rod brackets to the gang frames and secure, using two 1/2 x 1-1/4" hex-hd. machine bolts, lock washers, and nuts.

5. Attach two gang support rods to the outer brackets and secure, using four 3/4" hex. nuts and to the inner brackets, securing with cotter pins. Refer to "LEVELING AND ANGLING ADJUSTMENTS" in the Instructions for Adjusting and Operating.

6. Attach two outer drawbars to the outer drawbar brackets and secure, using quick-attachable cotter pins, and to the center bracket, securing with cotter pins. Refer to "LEVELING AND ANGLING ADJUSTMENTS" in the Instructions for Adjusting and Operating.



Illust. 13B
International Cub Lo-Boy Tractors with Fast-Hitch.



Illust. 14A
Farmall Cub Tractors without Fast-Hitch.

NOTE: Tractors must be equipped with a Rear Rockshaft Unit.

1. Assemble four spacers and two swivel bracket straps to the gang frames and secure, using four 3/8 x 1-3/4" hex-hd. machine bolts, lock washers, and nuts.

2. Assemble two spacers and the gang swivel plate to the gang frames and secure, using two 3/4 x 2-1/4" hex-hd. machine bolts, lock washers, and nuts.

3. Bolt two inner support rod brackets and the draft angles to the gang swivel plate, using four 1/2 x 2" hex-hd. machine bolts, lock washers, and nuts.

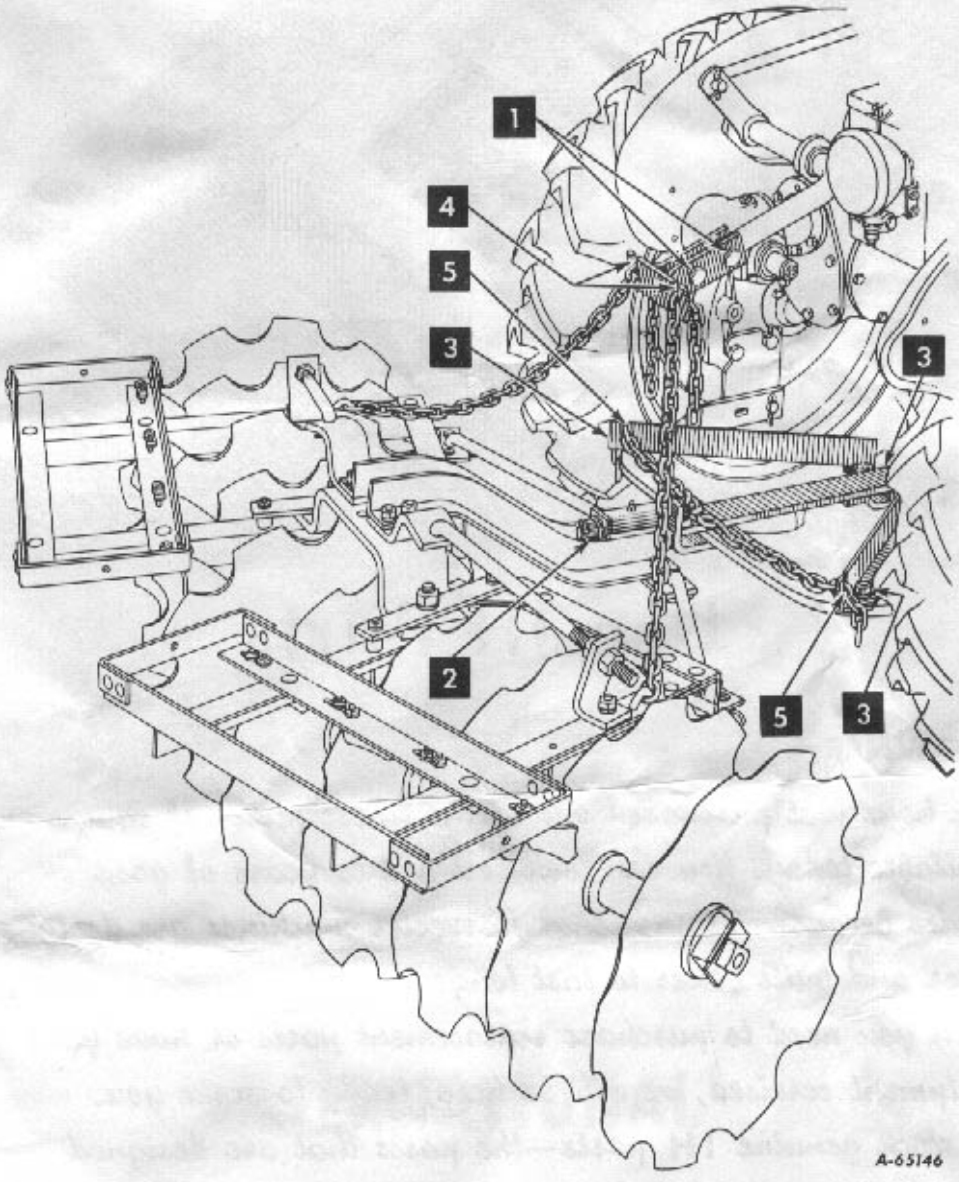
4. Assemble two filler bushings and the two outer support rod brackets to the gang frames and secure, using two 1/2 x 1-1/4" hex-hd. machine bolts, lock washers, and nuts.

5. Attach two gang support rods to the outer brackets and secure, using four 3/4" hex. nuts and to the inner brackets securing with cotter pins. Refer to "LEVELING, ANGLING, AND LIFTING ADJUSTMENTS" in the Instructions for Adjusting and Operating.

6. Bolt the outer drawbar center bracket to the draft angles, using two 1/2 x 1-1/4" hex-hd. machine bolts, lock washers, and nuts.

7. Attach two outer drawbars to the outer drawbar brackets, securing with quick-attachable cotter pins and to the center bracket securing with cotter pins. Refer to "LEVELING, ANGLING, AND LIFTING ADJUSTMENTS" in the Instructions for Adjusting and Operating.

8. Secure the end links of the lifting chains to the gang frames with two U-bolts, spacers, and hex. nuts. Refer to "LEVELING, ANGLING, AND LIFTING ADJUSTMENTS" in the Instructions for Adjusting and Operating.



Illust. 15A
Farmall Cub Tractors without Fast-Hitch.

1. Bolt the upper chain bracket to the rockshaft arm, using two 1/2 x 2-1/4" hex-hd. machine bolts, lock washers, and nuts.

2. Attach the tongue assembly to the draft angle bearing and secure with a 13/16" x 1-3/4" x 9 ga. plain washer and a 3/4" hex. nut.

3. Attach the hitch frame to the tongue assembly securing with a 5/8 x 3" drilled headed pin and quick-attachable cotter pin and to the tractor drawbar securing with two 5/8 x 1-5/8" hex-hd. machine bolts, lock washers, and nuts.

4. Place the lifting chains in the upper chain bracket slots at the desired length. Refer to "LEVELING, ANGLING, AND LIFTING ADJUSTMENTS" in the Instructions for Adjusting and Operating.

5. Place the snubbing chains in the hitch frame slots. Refer to "LEVELING, ANGLING, AND LIFTING ADJUSTMENTS" in the Instructions for Adjusting and Operating.

The bolts that hold the tractor drawbar rigid must be removed in order to allow the disk harrow to be free floating.

Use IH Parts

TO THE OWNER—

You have just purchased one of the finest pieces of equipment available today. You can look forward to years of good service because International Harvester machines are designed better and built better to last longer.

When you need to purchase replacement parts or have your equipment serviced, we will be here, ready to serve you.

We stock genuine **IH** *parts—the parts that are designed for your equipment, not just made for it.*

We also offer you **IH** *Blue Ribbon Service—the service that puts your equipment back to work in minimum time at an economical cost. We are here to serve you—call on us in the future.*

Sincerely,

_____

your **IH** *dealer*

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